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Application. No. : 09/993,808 Confirmation No. 8538 JUN 29 2004
Applicant : William J. Gordon-Kamm
Filed : 11/06/2001
TC/A.U. : 1638
Examiner : Collins, Cynthia E.
Docket No. : 1146
Customer No. : 27310
Title : Cell Cycle Nucleic Acids, Polypeptides and Uses Thereof

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO RESTRICTION REQUIREMENT

In response to the Restriction Requirement of June 6, 2004, Applicants elect with traverse Group I, Claims 1-11 and 13, drawn to isolated nucleic acids and Group (A) which is SEQ ID NO: 1 and a polynucleotide encoding SEQ ID NO: 2. The right to pursue examination of the non-elected claims in continuation or divisional applications is reserved. Reconsideration of the restrictions in this case is respectfully requested.

REMARKS

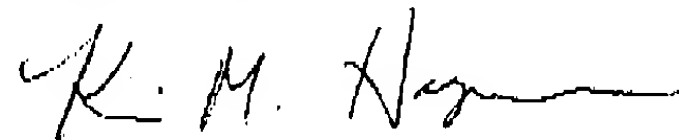
Under MPEP 803 the Examiner is requested to examine claims to independent or distinct inventions if the examination does not place an undue burden on the Examiner. It is submitted that the isolated nucleic acids and the methods of use are sufficiently related so as to be examined in one application.

Serial No. 09/993,808
Response Dated 06/29/2004
Reply to Office Action of 06/04/2004

Applicants specifically point out that Group (A) which is SEQ ID NO: 1 and a polynucleotide encoding SEQ ID NO: 2 and Group (C) which is SEQ ID NO: 5 and a polynucleotide encoding SEQ ID NO: 6 are closely related. The nucleic acid represented in SEQ ID NO: 1 has 89.9% identity, using GAP Creation Penalty= 8, Extension Penalty=2, to the nucleic acid represented by SEQ ID NO: 5. The two sequences also contain a conserved domain. Attached is a copy of an alignment between SEQ ID NO: 1 and SEQ ID NO: 5 with the conserved domain identified by a box. It is therefore submitted that groups (A) and (C) are closely related so as to be combined without undue burden.

Therefore, the Applicants respectfully request the reconsideration and withdrawal of the restriction requirement and allow Group (A) and (C), within Group I, to be examined in one application.

Respectfully submitted,



Kim M. Hagemann
Agent for Applicants
Registration No. 52,982

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Johnston, Iowa 50131-1000
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Facsimile: (515) 334-6883

Pretty Results

Plurality: 2.00 Threshold: 1 AveWeight 1.00 AveMatch 1.00
AvMismatch 0.00

Consensus Sequence

Symbol comparison table: pileupdna.cmp CompCheck: 6876

GapWeight: 5
GapLengthWeight: 1

PileUp MSF: 1445 Type: N June 23, 2004 16:20 Check: 7089 ..

Name: CKI_B Len: 1445 Check: 5375 Weight: 1.00
Name: CKI_D Len: 1445 Check: 1714 Weight: 1.00

```
//
1 50
Seq. 10: CKI_B -----c ccacgcgccc ggacgcaagc ggctgcaggc
Seq. 10: CKI_D cccacgcgccc cgagtagaat ccaaagcgca agcggctgca gccgcaggc
Consensus ----- CCA-----C- -G--GC---- G-CTGCAGGC

51 100
CKI_B agcagcgccc cgcaggcggt gtggcctgtg ggagaggaaa aagagaaaga
CKI_D agcagcgccc agcggtggga gtggcctgtg gggagtgga gtgaaaaaga
Consensus AGC--CCC-- -G--G--G-- GTGGCC---- GG----G--A --GA-AAAGA

101 150
CKI_B ggaaccggcc aagacaagca agcagaggcc cag.....g gccgcggcgt
CKI_D ggaaccggcc aagagaagca agcagagaaga aggcagtgtt gccgcggcgt
Consensus GGAACCGGCC AAGA-AAGCA AGCGAGA-G- --G----- GC-GCGGCGT

151 200
CKI_B agcgtagaat ggggaagtac atgcgcaggc gcaggggggc cgcaggcgcg
CKI_D cccgtagaat ggggaagtac atgcgcaggc gcaggggggc cgcaggcgcg
Consensus T-CGT-AGAT GGGGAAGTAC ATGCGCAAG- GCAGGGG-GC CGC-GGCG-G

201 250
CKI_B gaggtagccc ccgtcgaggc tacgcaggc gtggcggtcc ggacgaggcc
CKI_D ggggtggccc cagtcgaggc ctgcaggc gtggcggtcc ggacgaggcc
Consensus G-GGT-GCCG C-GTCGAGGT --CGCAGGTC GTGGGCGTCC GGACGAGGTC

251 300
CKI_B caggtagccc gccgcgac.. .cggcggtgt cgcgaaggcc gccccgagga
CKI_D caggtagccc gccgcgaccc gccgcgggtgt cgcgaaggcc gccccgagga
Consensus CAGGTCCGCG GCGGCGAC-- -CGGCGGTGT CCGGAAGGTC CC-CCG--GA

301 350
CKI_B ggaaga.... .gggcgcc ggccggggggg
CKI_D ggaggaagaa ggcgctgtgt cccgcggcga agtgagcga gtcggggggg
Consensus GGA-GA----- -G-CG-C G-CGGGGGAG
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Serial No. 09/993,308

Attorney Docket No. 1146

351 400
CKI_B cctggtgccg ccgtgagcgc tgggtggggac ggcgga... gctgctacat
CKI_D cctggg gccg tgggagctgg tgggtggggac ggcggaagct gctgctacat
Consensus CCTG-TGCCG --G----G- TGGTGGGGAC GCGGAA--- GCTGCTACAT

401 450
CKI_B ccacctgggt agccgcctgc tgggtcctggc accgcctcag ccgcagccgt
CKI_D ccacctgggt agccgcctgc tgggtcctggc agccacctcag ccgcacccgt
Consensus CCACCTGCG- AGCCGCATGC TGGTCTATGGC A-C-CCTCAG C-GCA-CCGT

451 500
CKI_B cgggtgacac ggttcgcgac ccgggtggagg ctgctgctgg ccctgcagga
CKI_D cgg.....c ggttcgcgac ccgggtggagg ctgctgctgg ccctgcagga
Consensus CGG-----C GG-TC-GAC- CCGGTGGAGG CTGCTG-TG- -GC-----A

501 550
CKI_B cagcagggcg cggcgctcgc ggccgggctc tggcgcttgc ccagcacggc
CKI_D ggcgggggtg tggcgctcgc ggctgggctc tggcgcttgc ccagcacggc
Consensus -----GC--G -GCGCTCGC GGC-GG-CTC TCGCTTCTT CCAGCACGGC

551 600
CKI_B gtccgtggcg aacttgggtc tgggggggtc gcgcgggagc cactccctgc
CKI_D gtccgtggcg gacgt..... ..cgggggc cactccctgc
Consensus GTCCGTGGTG -AC-T----- -CGGG-GC CAC-CCTGCC

601 650
CKI_B gctccctacg cgttcgcagc gctggggggg atcactcctt ggtggatgct
CKI_D gctccctacg tggcgctcgc gagggtgacg gggatcacgt ccgggatgct
Consensus GCTCC-ACG- -GC--C-G-C G--G--G--G ---A---C-T ---GGATGTC

651 700
CKI_B tggcgggcga gcaactccgg gagcgcccca gaccgcgaga ggcgagagac
CKI_D gtcacccgca gcaactccgg gagcgcccca gaccgcgaga ggagagagac
Consensus ----C-GCGA GCAACTC-GG GAGCG-CCC- GACCGCGAGA GG-GAGAGAC

701 750
CKI_B gacgcca... tggagccggg cgca...cgg cgagctcagc gatctggagt
CKI_D gacgcca... tggagccggg cgca...cgg cgagctcagc gatctggagt
Consensus GACGCCA--- TCGAGCCGGG CGCA---CGG CGAGCTCAGC GATCTGGAGT

751 800
CKI_B cggatctggc gg...ggcac aagactggc.....ccgtc gctacccggc
CKI_D cggatctggc gggcgccgag aagaolggc gctcgtcgtc gcggcgaca
Consensus CCGATCTGG- GG---GGCA- AAGACTGGC- -----CGTC GC---CG-C-

801 850
CKI_B gcaacgcccg ctgcggagct gctcgggccc ccagcacagc agatccagga
CKI_D acaacatcgg ctgcggagct gatcgtgccc ccagcacagg agatccagga
Consensus -CAAC--CGG CTGCCGAGCT GATCGTGGCG CCAGCACA-G AGATCCAGGA

851 900
CKI_B gtlcttcgcc gcgcgcggg cggcccagga caagcgtttt gcttccaggt
CKI_D gtlcttcgcc gcgcgcggg cggcccagga caagcgtttt gcttccaggt
Consensus -TTCTTCGC- GCGGC-----

901 950

CKI_B acaacttcga cttcgthcgg ggcggtgcgcc tgcagcgccgg aggcgggttc
CKI_D -----
Consensus -----

951 1000
CKI_B gagggggggc cgggggtag catctgaag gagcggtggt ccgggtgcaag
CKI_D -----
Consensus -----

1001 1050
CKI_B ggggaagctag aaagagaaaa gatgcccccc cccccccccc ccaacaaaca
CKI_D -----
Consensus -----

1051 1100
CKI_B laacggagaa gagaaaaacc aaacaaana gcagctttat atagcctaag
CKI_D -----
Consensus -----

1101 1150
CKI_B ctaccacca ccattcactt cgtccaaalg catgccttgc tttctctgg
CKI_D -----
Consensus -----

1151 1200
CKI_B agctagcagg agcgtagtla llaattagla ctactttact tattcagagg
CKI_D -----
Consensus -----

1201 1250
CKI_B llatcttgac ccgatagat caatccgctt acgttgtaal ttctctcatg
CKI_D -----
Consensus -----

1251 1300
CKI_B catctcttag atggagctta atcgtcttla tttattactg tacagcagct
CKI_D -----
Consensus -----

1301 1350
CKI_B tgggtgggtt gcaaagaaag acgtgggttg tctcaaaaaa aaaaaaaana
CKI_D -----
Consensus -----

1351 1400
CKI_B aaaaaaaaaa aagggggggc gctcragagg atccaagctt acgtacgggt
CKI_D -----
Consensus -----

1401 1445
CKI_B gcatggagcg tcatagctct tcatagtg cacttaata catgc
CKI_D -----
Consensus -----

PTO/SB/21 (04-04)

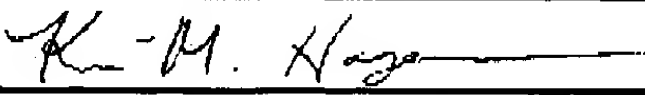
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		Filing Date	06/29/2004
		First Named Inventor	William J. Gordon-Kamm
		Art Unit	1638
		Examiner Name	Collins, Cynthia E.
Total Number of Pages in This Submission	6	Attorney Docket Number	1146

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Signature	
Date	June 29, 2004

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ATTORNEY DOCKET NO. 1146

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